

10544237

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* * * * * Welcome to STN International * * * * *

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NEWS 4 NOV 15 Derwent Indian patent publication number format enhanced
NEWS 5 NOV 19 WPIX enhanced with XML display format
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NEWS 7 DEC 04 LINPADOCDB now available on STN
NEWS 8 DEC 14 BEILSTEIN pricing structure to change
NEWS 9 DEC 17 USPATOLD added to additional database clusters
NEWS 10 DEC 17 IMSDRUGCONF removed from database clusters and STN
NEWS 11 DEC 17 DGENE now includes more than 10 million sequences
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MEDLINE segment
NEWS 13 DEC 17 MEDLINE and LMEDELINE updated with 2008 MeSH vocabulary
NEWS 14 DEC 17 CA/CAPLUS enhanced with new custom IPC display formats
NEWS 15 DEC 17 STN Viewer enhanced with full-text patent content
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NEWS 16 JAN 02 STN pricing information for 2008 now available
NEWS 17 JAN 16 CAS patent coverage enhanced to include exemplified
prophetic substances
NEWS 18 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new
custom IPC display formats
NEWS 19 JAN 28 MARPAT searching enhanced
NEWS 20 JAN 28 USGENE now provides USPTO sequence data within 3 days
of publication
NEWS 21 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 22 JAN 28 MEDLINE and LMEDELINE reloaded with enhancements
NEWS 23 FEB 08 STN Express, Version 8.3, now available
NEWS 24 FEB 20 PCI now available as a replacement to DPCI
NEWS 25 FEB 25 IFIREF reloaded with enhancements
NEWS 26 FEB 25 IMSPRODUCT reloaded with enhancements
NEWS 27 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that

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specific topic.

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FILE 'HOME' ENTERED AT 14:29:16 ON 08 MAR 2008

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COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.21          0.21
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FILE 'REGISTRY' ENTERED AT 14:29:27 ON 08 MAR 2008

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

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STRUCTURE FILE UPDATES:    7 MAR 2008  HIGHEST RN 1007169-18-7
DICTIONARY FILE UPDATES:   7 MAR 2008  HIGHEST RN 1007169-18-7
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New CAS Information Use Policies, enter HELP USAGETERMS for details.

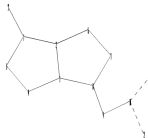
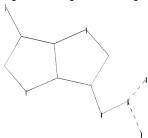
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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chain nodes :
9 10 11 12 13
ring nodes :
1 2 3 4 5 6 7 8
chain bonds :
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10544237

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ring bonds :
1-2 1-5 2-3 2-6 3-4 3-8 4-5 6-7 7-8
exact/norm bonds :
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Match level :

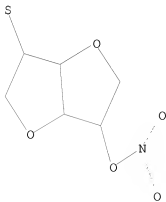
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11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sss l1 sam

SAMPLE SEARCH INITIATED 14:29:50 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s sss l1 full

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100.0% PROCESSED 75 ITERATIONS 11 ANSWERS
SEARCH TIME: 00.00.01

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L3 11 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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179.03

FILE 'CAPLUS' ENTERED AT 14:30:43 ON 08 MAR 2008

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FILE COVERS 1907 - 8 Mar 2008 VOL 148 ISS 11

FILE LAST UPDATED: 7 Mar 2008 (20080307/ED)

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<http://www.cas.org/infopolicy.html>

=> s l3

L4 2 L3

=> d ibib abs hitstr 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:371266 CAPLUS

DOCUMENT NUMBER: 142:423847

TITLE: Disulfide, sulfide, sulfoxide, and sulfone derivatives of cyclic sugars and uses thereof

INVENTOR(S): Repolles Moliner, Jose; Salas Perez-Rasilla, Eduardo; Pubill Coy, Francisco

PATENT ASSIGNEE(S): Lacer, S.A., Spain

SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005037842	A1	20050428	WO 2004-EP10882	20040929
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
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 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
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 SN, TD, TG

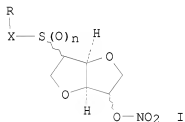
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ES 2258365	B1	20071201		
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CA 2540500	A1	20050428	CA 2004-2540500	20040929
EP 1668017	A1	20060614	EP 2004-765682	20040929
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DE 112004001860	T5	20060727	DE 2004-112004001860	20040929
BR 2004015020	A	20061107	BR 2004-15020	20040929
CN 1863805	A	20061115	CN 2004-80028935	20040929
JP 2007507451	T	20070329	JP 2006-530042	20040929
MX 2006PA03610	A	20060605	MX 2006-PA3610	20060330
IN 2006KN01011	A	20070420	IN 2006-KN1011	20060420
NO 2006001872	A	20060630	NO 2006-1872	20060427
US 2006235052	A1	20061019	US 2006-544237	20060605

PRIORITY APPLN. INFO.:

ES 2003-2368	A	20031003
WO 2004-EP10882	W	20040929

OTHER SOURCE(S): MARPAT 142:423847

GI



AB In the present invention there are disclosed new derivs. of dianhydrohexite mononitrate corresponding to formula I (where n = 0, 1, 2; X = -(C=O)-, etc., R = H, alkyl, alkenyl, cycloalkyl, etc.), tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof as well as pharmaceutical compns. comprising these compds. and uses thereof.

IT 263754-93-4P 850534-53-1P 850534-54-2P
 850534-55-3P 850534-56-4P 850534-57-5P
 850534-58-6P 850534-59-7P 850534-60-0P
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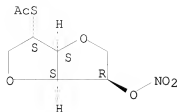
RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (disulfide, sulfide, sulfoxide, and sulfone derivs. of cyclic sugars and uses thereof)

RN 263754-93-4 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 2-acetate 5-nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

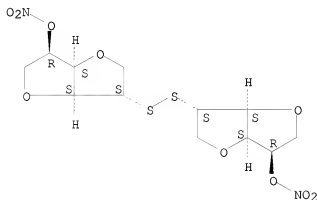
10544237



RN 850534-53-1 CAPLUS

CN D-Glucitol, 2,2'-dithiobis[1,4:3,6-dianhydro-2-deoxy-, dinitrate (9CI)
(CA INDEX NAME)

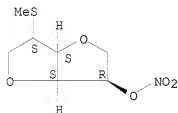
Absolute stereochemistry.



RN 850534-54-2 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-S-methyl-2-thio-, nitrate (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

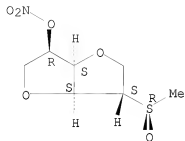


RN 850534-55-3 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-[(R)-methylsulfinyl]-, nitrate
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

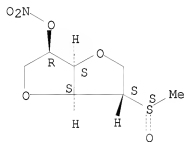
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RN 850534-56-4 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-[(S)-methylsulfinyl]-, nitrate (9CI) (CA INDEX NAME)

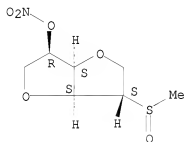
Absolute stereochemistry.



RN 850534-57-5 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-(methylsulfinyl)-, nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

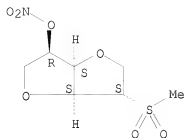


RN 850534-58-6 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-(methylsulfonyl)-, nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

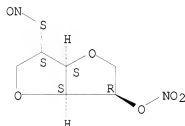
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RN 850534-59-7 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 5-nitrate 2-nitrite (9CI) (CA INDEX NAME)

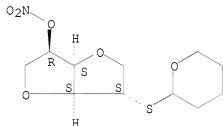
Absolute stereochemistry.



RN 850534-60-0 CAPLUS

CN D-Glucitol, 2-S-(tetrahydro-2H-pyran-2-yl)-2-thio-, nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

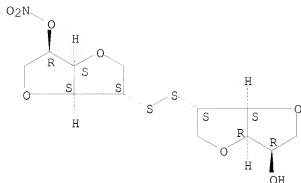


RN 850534-61-1 CAPLUS

CN D-Glucitol, 2,2'-dithiobis[1,4:3,6-dianhydro-2-deoxy-, mononitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

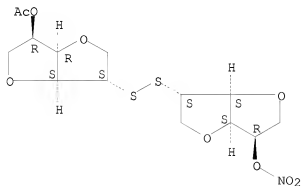
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RN 850534-62-2 CAPLUS

CN D-Glucitol, 2,2'-dithiobis[1,4:3,6-dianhydro-2-deoxy-, monoacetate mononitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on SIN

ACCESSION NUMBER: 2000:241230 CAPLUS

DOCUMENT NUMBER: 132:279468

TITLE: Derivatives of isosorbide mononitrate, and their use as vasodilators with reduced tolerance

INVENTOR(S): Repolles, Moliner Jose; Pubill Coy, Francisco; Cabeza Llorente, Lydia; Carbo Banus, Marcelli; Negrie Rofes, Cristina; Cerda Riudavets, Juan Antonio; Ferrer Siso, Alicia; Radomski, Marek W.; Salas Perez-rasilla, Eduardo; Martinez Bonnin, Juan

PATENT ASSIGNEE(S): Lacer, S.A., Spain; et al.

SOURCE: PCI Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Spanish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

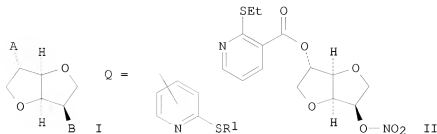
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2000020420	A1	20000413	WO 1999-ES316	19991004
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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CA 2346010	A1	20000413	CA 1999-2346010	19991004
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AU 762724	B2	20030703		
BR 9914355	A	20010626	BR 1999-14355	19991004
EP 1120419	A1	20010801	EP 1999-949015	19991004
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PT 1120419	T	20060731	PT 1999-949015	19991004
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NO 2001001778	A	20010406	NO 2001-1778	20010406
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BG 105417	A	20011231	BG 2001-105417	20010406
BG 65135	B1	20070330		
MX 2001PA03568	A	20020311	MX 2001-PA3568	20010406
HR 2001000256	A1	20020430	HR 2001-256	20010406
IN 2001KN00395	A	20050520	IN 2001-KN395	20010419
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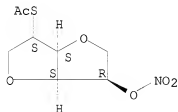
ES 1998-2076	A	19981007
WO 1999-ES316	W	19991004
US 2001-827868	B1	20010406

OTHER SOURCE(S): MARPAT 132:279468
GI



- AB Isosorbide mononitrate derivs. I and their pharmaceutically acceptable salts are disclosed [wherein A or B = ONO₂; other = -Z-CO-R; Z = O or S; R = (un)substituted C1-C4 alkyl, aryl, aralkyl, or thio-substituted pyridinyl group Q; R1 = H, (un)substituted C1-C4 alkyl, aryl, or aralkyl; when Z = S, R = (un)substituted C1-C4 alkyl, aryl, or aralkyl; when Z = O, R = Q]. The compds. have vasodilator activity with a reduced tolerance effect. For instance, 2-(ethylthio)nicotinic acid was converted to the acid chloride by SOCl₂ (100%), followed by coupling with isosorbide 5-mononitrate (88%), and acidification with HCl in Et₂O (99%), to give title compound II as the HCl salt. In an arterial ring vasodilation assay in vitro, II.HCl had an EC₅₀ of 0.13 mM, vs. 0.92 mM for isosorbide 5-mononitrate. In a tolerance assay, chronic (3 day) administration increased the EC₅₀ approx. 7-fold for isosorbide 5-mononitrate, vs. 4-fold for II.HCl, and essentially null for another invention compound
- IT 263754-93-4P, 2-(Acetylmercapto)isosorbide 5-mononitrate
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (target compound; preparation of isosorbide mononitrate derivs. as vasodilators with reduced tolerance)
- RN 263754-93-4 CAPLUS
- CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 2-acetate 5-nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff y
 COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
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10544237

CA SUBSCRIBER PRICE

-1.60

-1.60

STN INTERNATIONAL LOGOFF AT 14:32:58 ON 08 MAR 2008

Connecting via Winsock to STN

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PASSWORD:

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NEWS 2 OCT 02 CA/Caplus enhanced with pre-1907 records from Chemisches
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NEWS 7 DEC 04 LINPADOCDB now available on STN
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from USPATOLD
NEWS 16 JAN 02 STN pricing information for 2008 now available
NEWS 17 JAN 16 CAS patent coverage enhanced to include exemplified
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NEWS 18 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new
custom IPC display formats
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of publication
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NEWS 23 FEB 08 STN Express, Version 8.3, now available
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NEWS 25 FEB 25 IFIREF reloaded with enhancements
NEWS 26 FEB 25 IMSPRODUCT reloaded with enhancements
NEWS 27 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

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NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:08:10 ON 08 MAR 2008

```
=> fil reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.21          0.21
```

FILE 'REGISTRY' ENTERED AT 15:08:34 ON 08 MAR 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2008 HIGHEST RN 1007169-18-7

DICTIONARY FILE UPDATES: 7 MAR 2008 HIGHEST RN 1007169-18-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

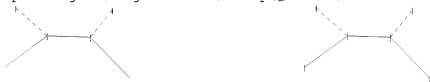
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=>
Uploading C:\Program Files\Stnexp\Queries\disulfideoxides.str
```



```
chain nodes :
1 2 3 4 5 6
chain bonds :
1-2 1-5 1-4 2-6 2-3
```

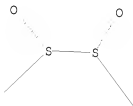
10544237

exact/norm bonds :
1-2 1-5 1-4 2-6 2-3

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

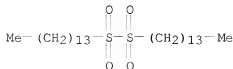
=> s sss sam l1
SAMPLE SEARCH INITIATED 15:08:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 60 TO ITERATE
100.0% PROCESSED 60 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 736 TO 1664
PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Tetradecyl disulfone (8CI)
MF C28 H58 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10544237

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

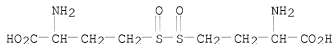
L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Disulfoxide, dimethyl, [S(R),S(R)]-rel- (9CI)
MF C2 H6 O2 S2

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Butanoic acid, 4,4'-disulfinylbis[2-amino- (9CI)
MF C8 H16 N2 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> logoff y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.92

1.13

STN INTERNATIONAL LOGOFF AT 15:09:28 ON 08 MAR 2008